

14. (Amended) The system of claim 11 wherein the analysis interaction algorithm performs real time intervention.

a² 15. (Amended) The system of claim 11 wherein the communications system is selected from the group consisting of:

communications between two servers; communications between two central computers; wireless communications between two microprocessors; communications between a microprocessor and a central computer; and Internet communications.

Please add the following new claims:

25. (New) The system of claim 11 wherein the first computer is an ambulatory computer.

26. (New) The system of claim 25 wherein the ambulatory computer is operably connected to a personal orthopedic restraining device adapted for attachment to a patient.

a³ 27. (New) The system of claim 26 wherein the personal orthopedic restraining device includes sensors for monitoring patient exercise activity.

28. (New) The system of claim 27 wherein the sensors measure stress.

29. (New) The system of claim 11 wherein the first computer is a central computer.

30. (New) The system of claim 29 wherein the communication system provides for communication between the central computer and an ambulatory computer.

31. (New) The system of claim 11 wherein the automated update by the analysis interaction protocol comprises an increase or decrease of goals in prescribed exercise protocols based on a patient's response to past exercise protocol goals.

32. (New) The system of claim 11 wherein the automated evaluation performed by the analysis interaction algorithm comprises:

a) providing a treatment protocol; and

- b) comparing a patient's exercise performance with prescribed goals.

33. (New) The system of claim 32 wherein the automated evaluation performed by the analysis interaction algorithm further comprises:

- c) comparing a patient's exercise performance with a benchmark; and
- d) comparing a patient's exercise performance with historic norms.

34. (New) The system of claim 11 wherein the analysis interaction algorithm provides an automated warning to treatment professionals of incidents of significance.

35. (New) The system of claim 11 wherein the treatment protocol administers biological manipulation of a patient.

36. (New) The system of claim 35 wherein the biological manipulation is selected from the group consisting of:

- chemical manipulation;
- CNS stimulation of peripherally acting hormones (secretagogue);
- parenterally administered peripherally acting hormones;
- locally administered locally acting hormones;
- locally administered drugs; and
- orally administered drugs.

37. (New) The system of claim 35 wherein the biological manipulation is selected from the group consisting of:

- biophysical stimulation;
 - heat;
 - vibration;
 - ultrasound;
 - electrical current, electromagnetic waves, and;
 - light.
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